

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number
WO 2005/047519 A2

(51) International Patent Classification⁴:

C12Q

(74) Agent: SHMUEL, Livnat; McKenna Long & Aldridge
LLP, 1900 K Street, N.W., Washington, DC 20006 (US).

(21) International Application Number:

PCT/US2004/036555

(22) International Filing Date:

4 November 2004 (04.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/516,730

4 November 2003 (04.11.2003) US

(71) Applicant (for all designated States except US): VAN AN-
DEL RESEARCH INSTITUTE [US/US]; 333 Bostwick,
N.E., Grand Rapids, MI 49503 (US).

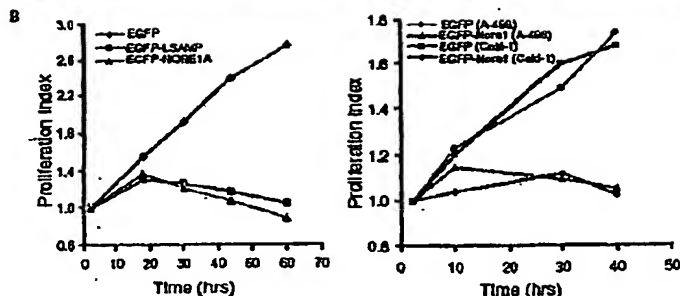
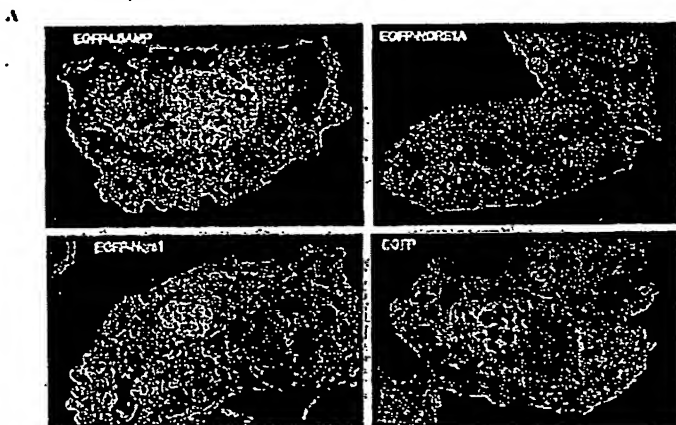
(72) Inventors (for US only): TEH, Bin, Team; c/o Van Andel
Research Institute, 333 Bostwick NE, Grand Rapids, MI
49503 (US). CHEN, Jin, Dong (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,

[Continued on next page]

(54) Title: LSAMP AND NORE 1 DOWN-REGULATION IN CLEAR CELL RENAL CELL CARCINOMAS



(57) Abstract: Two genes, *LSAMP* and *NORE1* are under expressed or downregulated in one type of kidney cancer, clear cell renal cell carcinoma (CC-RCC). Methods and kits for detecting cells with this property as tumor cells or as precancerous susceptible cells are disclosed.. Also disclosed are methods for inhibiting cancer-associated properties of such cells and for treating subjects in whom such cells are present.

BEST AVAILABLE COPY

WO 2005/047519 A2